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## **Position sensitive Ultra cold neutron detector using 10B-coated CCD**

Ultra-cold neutrons are used in many particle physics experiments such as measurement of the neutron EDM, the neutron lifetime or of gravitational quantum states. These neutrons with energies below 250 neV tend to bounce on most material and pose several detection challenges.

We present a position-sensitive UCN detector using boron 10 coated CCD sensors reaching an efficiency of 85% in a large velocity range and a spatial resolution close to 2  $\mu\text{m}$ .

### **Primary experiment**

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